

**METHOD AND APPARATUS FOR PREVENTING A FALSE PASS OF A  
CYCLIC REDUNDANCY CHECK AT A RECEIVER DURING WEAK  
RECEIVING CONDITIONS IN A WIRELESS COMMUNICATIONS SYSTEM**

**Abstract of the Disclosure**

5           At the receiver in a wireless communications system, the likelihood of a  
false CRC pass that can occur when a weak received signal produces an all  
ZERO output from a convolutional or a turbo decoder is minimized. To  
prevent an all ZERO output, a convolutional decoder selects from among  
those determined equally most likely transmitted sequences of bits in a data  
10   block one that has a weight greater than the one having the minimum weight.  
A turbo decoder selects a ONE rather than a ZERO as the value of a  
transmitted bit in a data block when for that bit a bit value of a ZERO and a  
ONE are determined to be equally likely.